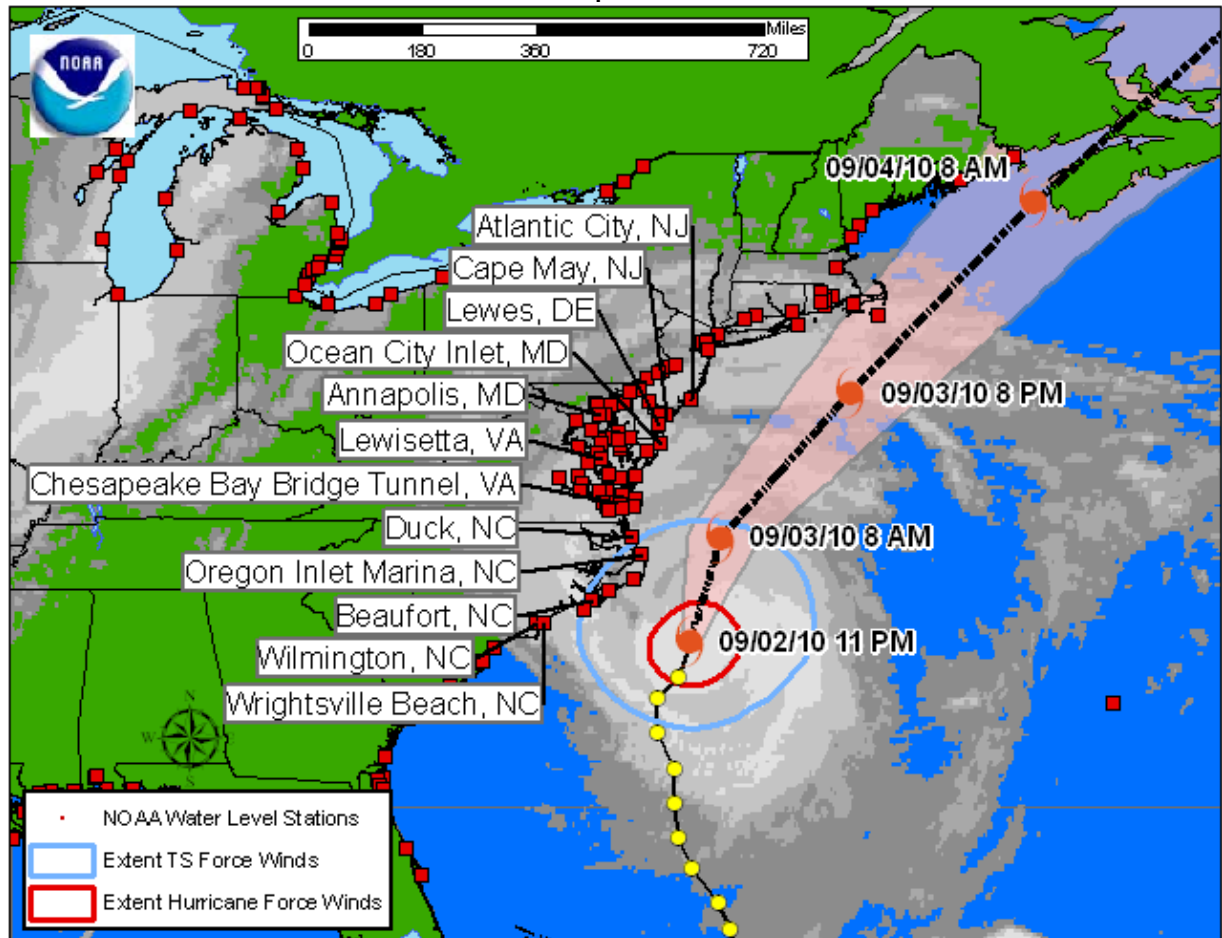




Hurricane EARL QuickLook
Posted: 00:00 EDT 09/03/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 09/03/2010 00:00 EDT, water levels along the eastern U.S. coastline from North Carolina to Maryland are rising up to 1.0 feet above predicted levels. Water levels from Delaware northward are at or slightly above predicted levels. Winds from Beaufort northward are increasing across the area and have a range of 20 to 25 knots, with gusts up to 35 knots. Winds north of the mouth of the Chesapeake Bay are not as high, but will be increasingly affected by the hurricane over the next six hours. Barometric pressure is falling along the coast all the way to Atlantic City, NJ.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

WRIGHTSVILLE BEACH, NC: Next predicted high tides are 3.45 ft (1.05 m) at 09/03/2010 02:35 EDT and 4.49 ft (1.37 m) at 09/03/2010 15:17 EDT.

WILMINGTON, NC: Next predicted high tides are 3.93 ft (1.20 m) at 09/03/2010 04:50 EDT and 4.59 ft (1.40 m) at 09/03/2010 17:31 EDT.

BEAUFORT, NC: Next predicted high tides are 2.80 ft (0.85 m) at 09/03/2010 03:06 EDT and 3.58 ft (1.09 m) at 09/03/2010 15:57 EDT.

OREGON INLET MARINA, NC: Next predicted high tides are 1.08 ft (0.33 m) at 09/03/2010 03:13 EDT and 1.35 ft (0.41 m) at 09/03/2010 15:59 EDT.

DUCK, NC: Next predicted high tides are 2.84 ft (0.87 m) at 09/03/2010 02:43 EDT and 3.82 ft (1.16 m) at 09/03/2010 15:22 EDT.

CHESAPEAKE BAY BRIDGE TUNNEL, VA: Next predicted high tides are 2.31 ft (0.70 m) at 09/03/2010 03:29 EDT and 2.98 ft (0.91 m) at 09/03/2010 16:11 EDT.

LEWISSETTA, VA: Next predicted high tides are 1.44 ft (0.44 m) at 09/03/2010 08:54 EDT and 1.65 ft (0.50 m) at 09/03/2010 21:51 EDT.

ANNAPOLIS, MD: Next predicted high tides are 1.69 ft (0.52 m) at 09/03/2010 01:12 EDT and 1.15 ft (0.35 m) at 09/03/2010 12:16 EDT.

OCEAN CITY INLET, MD: Next predicted high tides are 1.82 ft (0.55 m) at 09/03/2010 03:16 EDT and 2.41 ft (0.73 m) at 09/03/2010 16:24 EDT.

LEWES, DE: Next predicted high tides are 3.47 ft (1.06 m) at 09/03/2010 04:05 EDT and 4.74 ft (1.44 m) at 09/03/2010 16:42 EDT.

CAPE MAY, NJ: Next predicted high tides are 4.13 ft (1.26 m) at 09/03/2010 03:59 EDT and 5.46 ft (1.66 m) at 09/03/2010 16:33 EDT.

ATLANTIC CITY, NJ: Next predicted high tides are 3.34 ft (1.02 m) at 09/03/2010 02:51 EDT and 4.63 ft (1.41 m) at 09/03/2010 15:25 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook](#) homepage.

Analyst: WFR

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

HURRICANE EARL ADVISORY NUMBER 35
1100 PM EDT THU SEP 02 2010

...CENTER OF EARL PASSING JUST EAST OF THE OUTER BANKS...NEW TROPICAL STORM WARNINGS ISSUED FOR NEW ENGLAND...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

A TROPICAL STORM WARNING IS IN EFFECT FOR THE COAST OF MASSACHUSETTS FROM NORTH OF HULL TO THE MERRIMACK RIVER...AND FOR THE COAST OF MAINE FROM STONINGTON TO EASTPORT.

THE TROPICAL STORM WARNING FROM CAPE FEAR TO WEST OF SURF CITY NORTH CAROLINA HAS BEEN DISCONTINUED.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A HURRICANE WARNING IS IN EFFECT FOR...

- * BOGUE INLET NORTH CAROLINA NORTHEASTWARD TO THE NORTH CAROLINA/VIRGINIA BORDER INCLUDING THE PAMLICO AND ALBEMARLE SOUNDS**
- * WESTPORT MASSACHUSETTS EASTWARD AROUND CAPE COD TO HULL MASSACHUSETTS INCLUDING MARTHAS VINEYARD AND NANTUCKET ISLAND**

A HURRICANE WATCH IS IN EFFECT FOR...

- * NORTH OF THE NORTH CAROLINA/VIRGINIA BORDER TO CAPE HENLOPEN DELAWARE**

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * SURF CITY NORTH CAROLINA TO WEST OF BOGUE INLET NORTH CAROLINA**
- * NORTH OF THE NORTH CAROLINA/VIRGINIA BORDER TO SANDY HOOK NEW JERSEY...INCLUDING DELAWARE BAY SOUTH OF SLAUGHTER BEACH AND THE CHESAPEAKE BAY SOUTH OF NEW POINT COMFORT**
- * THE COAST OF LONG ISLAND NEW YORK FROM FIRE ISLAND INLET EASTWARD ON THE SOUTH SHORE AND PORT JEFFERSON HARBOR EASTWARD ON THE NORTH SHORE**
- * NEW HAVEN CONNECTICUT TO WEST OF WESTPORT MASSACHUSETTS...INCLUDING BLOCK ISLAND**
- * NORTH OF HULL MASSACHUSETTS TO THE MERRIMACK RIVER**
- * STONINGTON MAINE EASTWARD TO EASTPORT MAINE**

A TROPICAL STORM WATCH IS IN EFFECT FOR...

- * NORTH OF THE MERRIMACK RIVER TO WEST OF STONINGTON MAINE**
- * THE COAST OF LONG ISLAND WEST OF FIRE ISLAND INLET ON THE SOUTH SHORE AND WEST OF PORT JEFFERSON HARBOR ON THE NORTH SHORE**

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 PM EDT THE CENTER OF HURRICANE EARL WAS LOCATED NEAR LATITUDE 33.8 NORTH...LONGITUDE 74.4 WEST. EARL IS MOVING TOWARD THE NORTH-NORTHEAST NEAR 18 MPH. AN INCREASE IN FORWARD SPEED AND A TURN TOWARD THE NORTHEAST ARE EXPECTED IN THE NEXT 24 TO 36 HOURS. ON THE FORECAST

TRACK...THE CENTER OF EARL WILL PASS NEAR THE NORTH CAROLINA OUTER BANKS TONIGHT...AND WILL APPROACH SOUTHEASTERN NEW ENGLAND FRIDAY NIGHT.

DATA FROM THE AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT INDICATE THAT MAXIMUM SUSTAINED WINDS HAVE DECREASED TO NEAR 105 MPH WITH HIGHER GUSTS. EARL IS A CATEGORY TWO HURRICANE ON THE SAFFIR-SIMPSON SCALE. SLOW WEAKENING IS FORECAST DURING THE NEXT 24 TO 36 HOURS...BUT EARL IS EXPECTED REMAIN A LARGE HURRICANE AS IT PASSES NEAR THE OUTER BANKS AND APPROACHES SOUTHEASTERN NEW ENGLAND.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES...110 KM...FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 205 MILES.

HAZARDS AFFECTING LAND

WINDS...TROPICAL-STORM-FORCE WINDS ARE OCCURRING ALONG THE NORTH CAROLINA COAST WITHIN THE WARNING AREA...AND HURRICANE CONDITIONS ARE EXPECTED IN THE OUTER BANKS OVERNIGHT. TROPICAL-STORM-FORCE WINDS WILL LIKELY REACH THE COAST FROM VIRGINIA NORTHWARD TO MASSACHUSETTS ON FRIDAY...AND SPREAD OVER THE COAST OF MAINE WITHIN THE WARNING AREA FRIDAY NIGHT. HURRICANE CONDITIONS ARE EXPECTED WITHIN THE HURRICANE WARNING AREA IN MASSACHUSETTS FRIDAY NIGHT.

STORM SURGE...A DANGEROUS STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 3 TO 5 FEET ABOVE GROUND LEVEL WITHIN THE HURRICANE WARNING AREA OVER NORTH CAROLINA...AS WELL AS IN THE LOWER CHESAPEAKE BAY. STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 2 TO 4 FEET ABOVE GROUND LEVEL WITHIN THE HURRICANE WARNING AREA OVER MASSACHUSETTS. ELSEWHERE WITHIN THE TROPICAL STORM WARNING AREA...STORM SURGE WILL RAISE WATER LEVELS BY AS MUCH AS 1 TO 3 FEET ABOVE GROUND LEVEL. NEAR THE COAST...THE SURGE WILL BE ACCOMPANIED BY LARGE AND DESTRUCTIVE WAVES.

RAINFALL...EARL IS EXPECTED TO PRODUCE RAINFALL ACCUMULATIONS OF 2 TO 4 INCHES...WITH ISOLATED MAXIMUM AMOUNTS OF 6 INCHES...OVER PORTIONS OF EASTERN NORTH CAROLINA INCLUDING THE OUTER BANKS. ACCUMULATIONS OF 1 TO 3 INCHES...WITH ISOLATED MAXIMUM AMOUNTS OF 5 INCHES...ARE POSSIBLE OVER SOUTHEAST NEW ENGLAND. ACCUMULATIONS OF 1 TO 2 INCHES ARE POSSIBLE FROM EXTREME SOUTHEASTERN VIRGINIA NORTHWARD ALONG THE IMMEDIATE MID-ATLANTIC COAST...AS WELL AS OVER DOWNEAST MAINE.

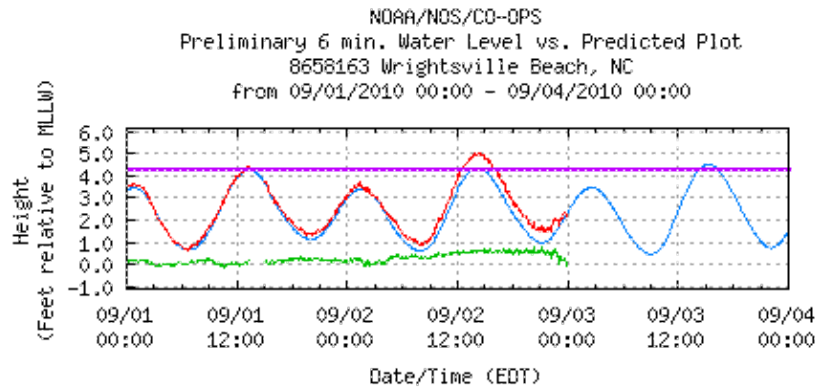
SURF...LARGE SWELLS FROM EARL WILL CONTINUE TO AFFECT THE EAST COAST OF THE UNITED STATES THROUGH FRIDAY. THESE SWELLS WILL LIKELY CAUSE DANGEROUS SURF CONDITIONS AND RIP CURRENTS.

FORECASTER BRENNAN/BERG

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#), [Wrightsville Beach - Barometric](#), [Wrightsville Beach - Air/Water Temp](#), [Wilmington - Water Level](#), [Wilmington - Barometric](#), [Wilmington - Air/Water Temp](#), [Beaufort - Water Level](#), [Beaufort - Winds](#), [Beaufort - Barometric](#), [Beaufort - Air/Water Temp](#), [Oregon Inlet Marina - Water Level](#), [Oregon Inlet Marina - Winds](#), [Oregon Inlet Marina - Barometric](#), [Oregon Inlet Marina - Air/Water Temp](#), [Duck - Water Level](#), [Duck - Winds](#), [Duck - Barometric](#), [Duck - Air/Water Temp](#), [Chesapeake Bay Bridge Tunnel - Water Level](#), [Chesapeake Bay Bridge Tunnel - Winds](#), [Chesapeake Bay Bridge Tunnel - Barometric](#), [Chesapeake Bay Bridge Tunnel - Air/Water Temp](#), [Lewisetta - Water Level](#), [Lewisetta - Winds](#), [Lewisetta - Barometric](#), [Lewisetta - Air/Water Temp](#), [Annapolis - Water Level](#), [Annapolis - Barometric](#), [Annapolis - Air/Water Temp](#), [Ocean City Inlet - Water Level](#), [Ocean City Inlet - Winds](#), [Ocean City Inlet - Barometric](#), [Ocean City Inlet - Air/Water Temp](#), [Lewes - Water Level](#), [Lewes - Winds](#), [Lewes - Barometric](#), [Lewes - Air/Water Temp](#), [Cape May - Water Level](#), [Cape May - Winds](#), [Cape May - Barometric](#), [Cape May - Air/Water Temp](#), [Atlantic City - Water Level](#), [Atlantic City - Barometric](#), [Atlantic City - Air/Water Temp](#).

Wrightsville Beach, NC - [Return to List](#)

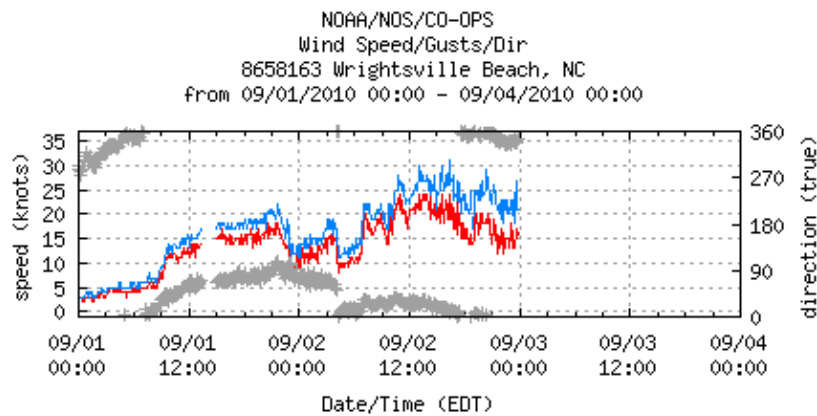


Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: **Observed: 2.13 ft. Predicted: 2.21 ft. Residual: -0.08 ft.**

Historical Maximum Water Level: Sep 25 2008, 2.78 ft. above **MHHW**

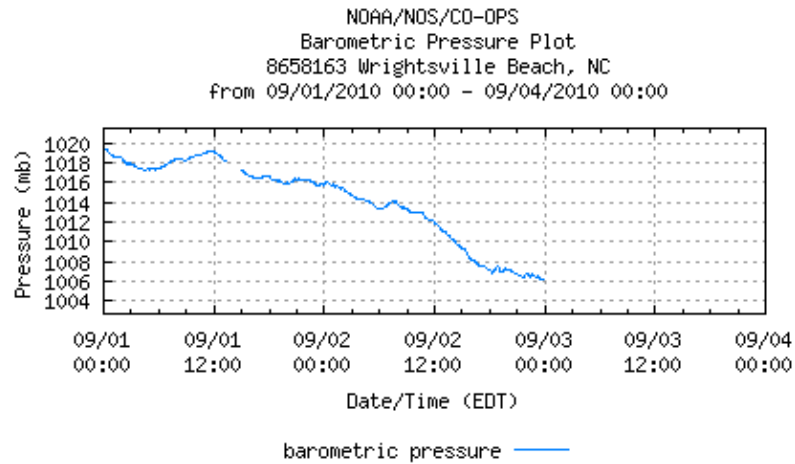
Wrightsville Beach, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Wind Speed: 16 knots Gusts: 21 knots Direction: 344° T

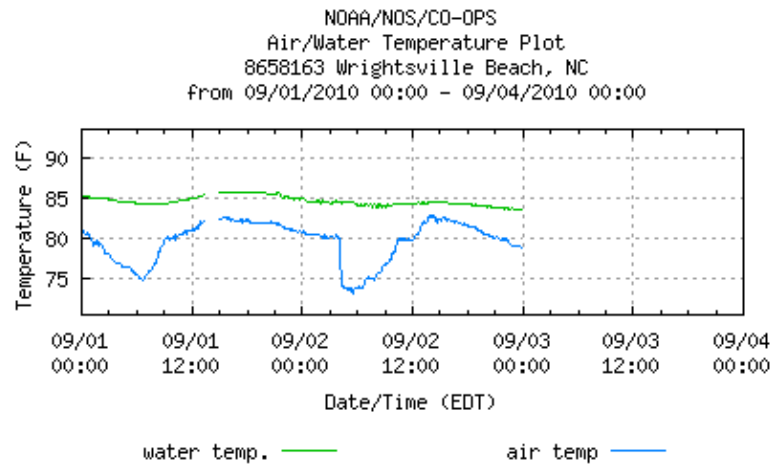
Wrightsville Beach, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1006.2 mb

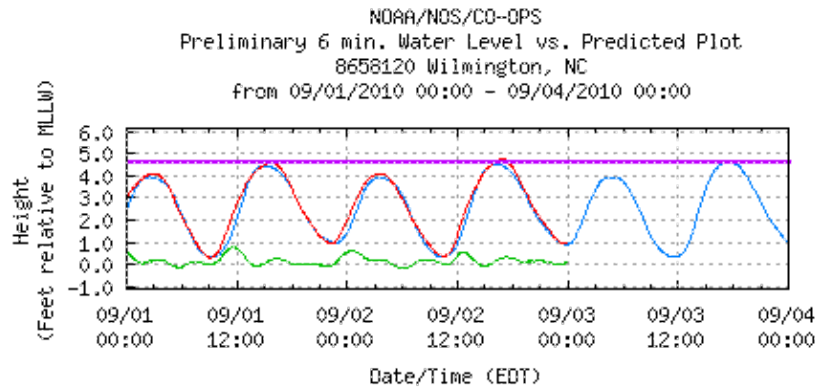
Wrightsville Beach, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Water Temperature: 83.5° F Air Temperature: 78.8° F

Wilmington, NC - [Return to List](#)

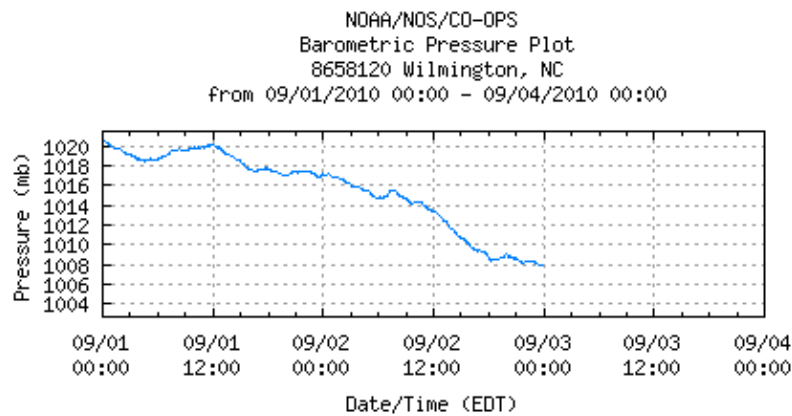


Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: **Observed: 1.00 ft. Predicted: 0.90 ft. Residual: 0.10 ft.**

Historical Maximum Water Level: Oct 15 1954, 3.47 ft. above **MHHW**

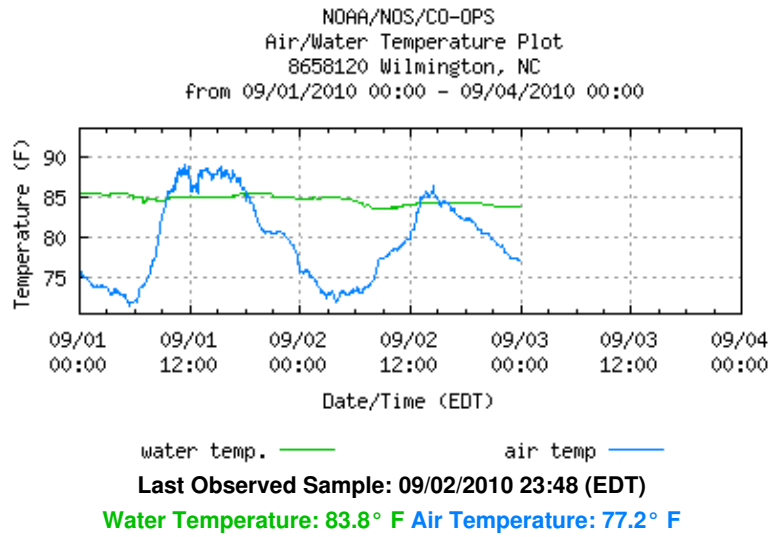
Wilmington, NC - [Return to List](#)



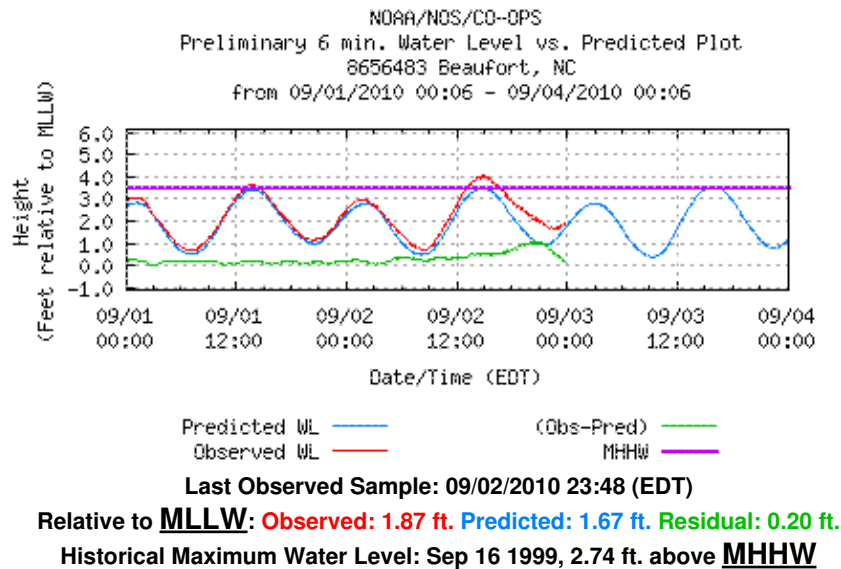
Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1007.9 mb

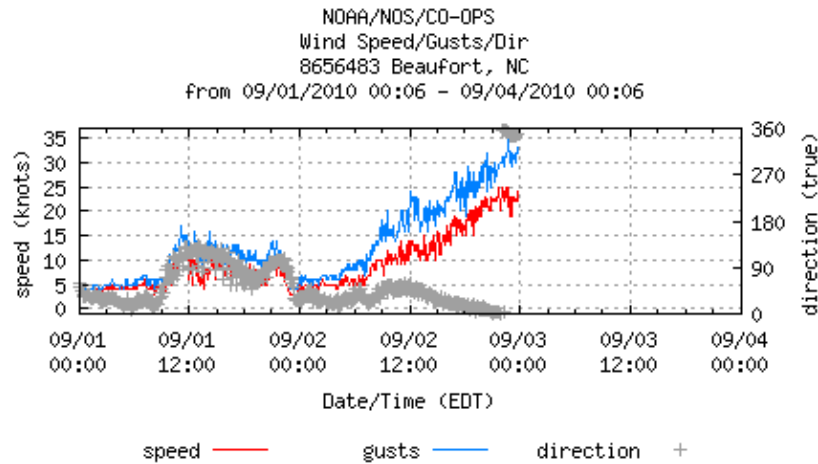
Wilmington, NC - [Return to List](#)



Beaufort, NC - [Return to List](#)



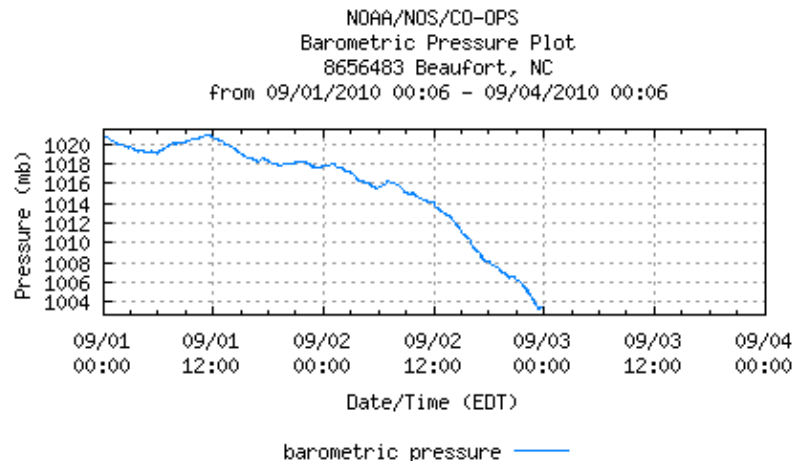
Beaufort, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Wind Speed: 24 knots Gusts: 33 knots Direction: 350° T

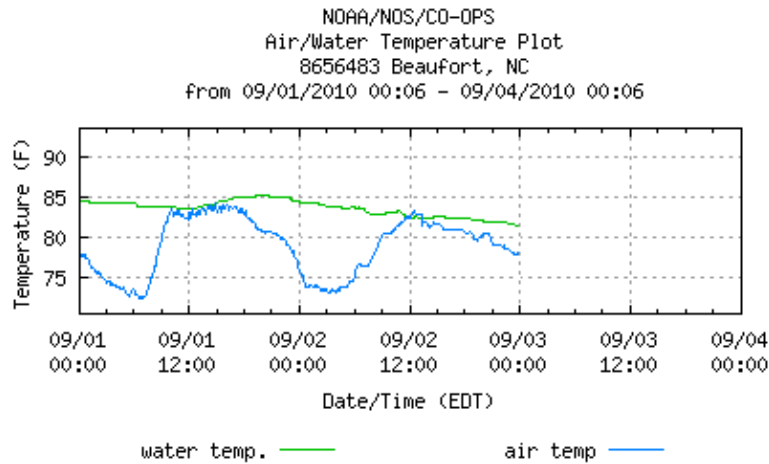
Beaufort, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1003.4 mb

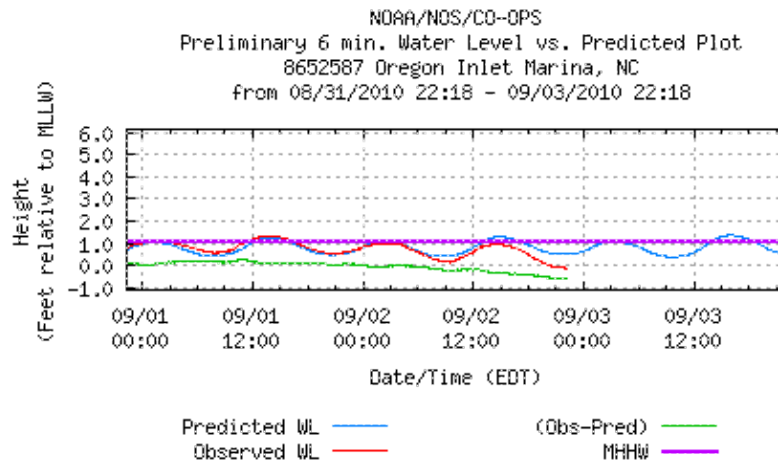
Beaufort, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Water Temperature: 81.5° F Air Temperature: 77.9° F

Oregon Inlet Marina, NC - [Return to List](#)

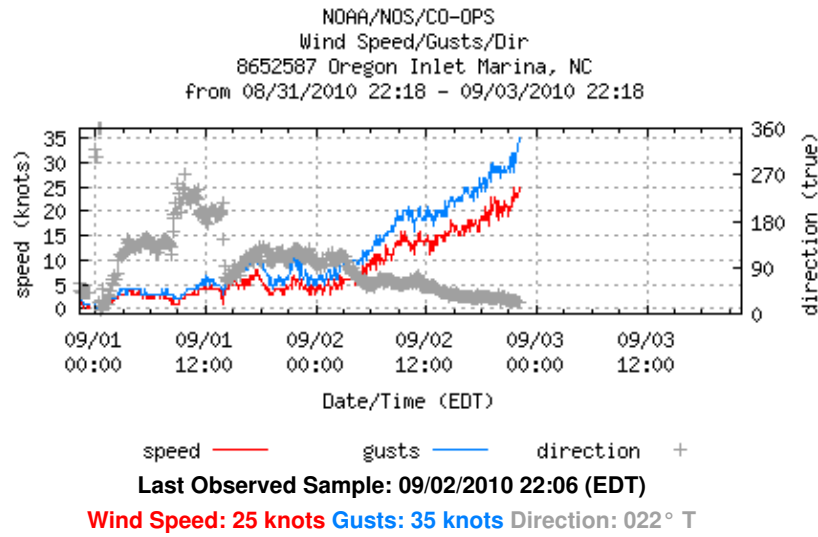


Last Observed Sample: 09/02/2010 22:06 (EDT)

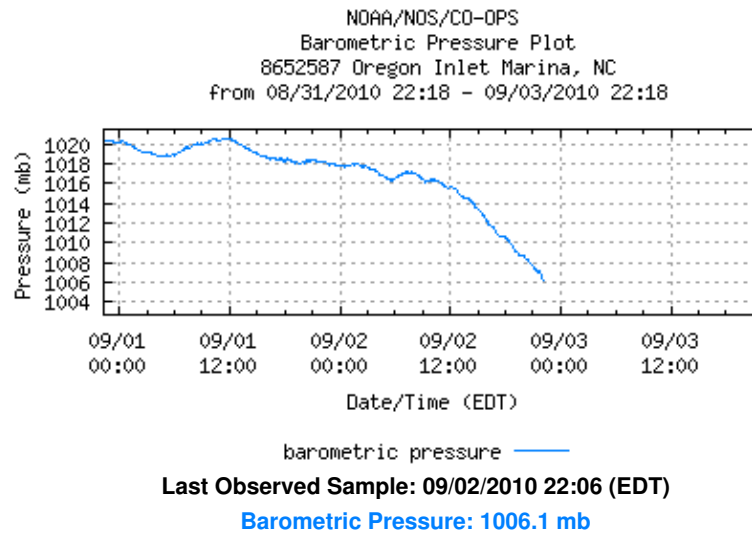
Relative to **MLLW**: Observed: -0.12 ft. Predicted: 0.49 ft. Residual: -0.61 ft.

Historical Maximum Water Level: Sep 16 1999, 4.49 ft. above **MHHW**

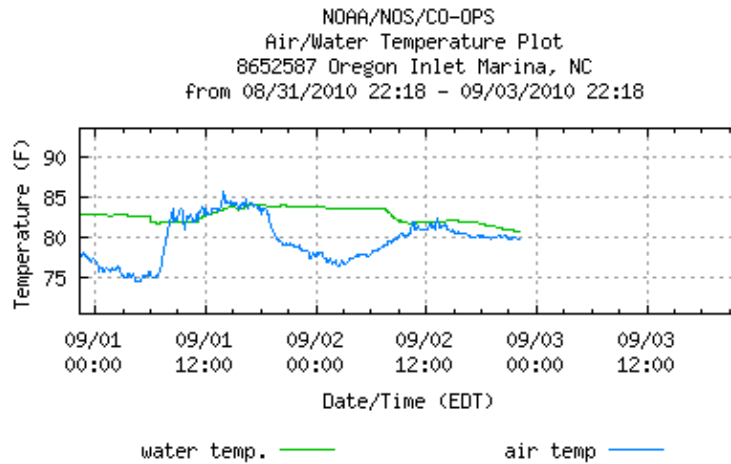
Oregon Inlet Marina, NC - [Return to List](#)



Oregon Inlet Marina, NC - [Return to List](#)



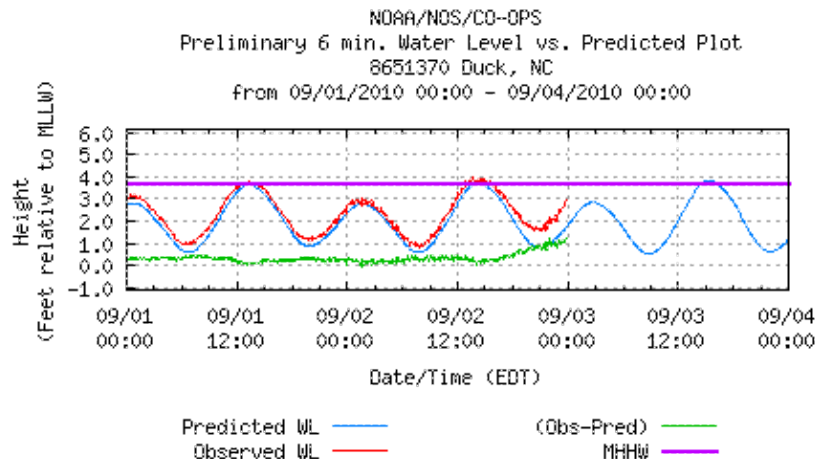
Oregon Inlet Marina, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 22:06 (EDT)

Water Temperature: 80.8° F Air Temperature: 79.9° F

Duck, NC - [Return to List](#)

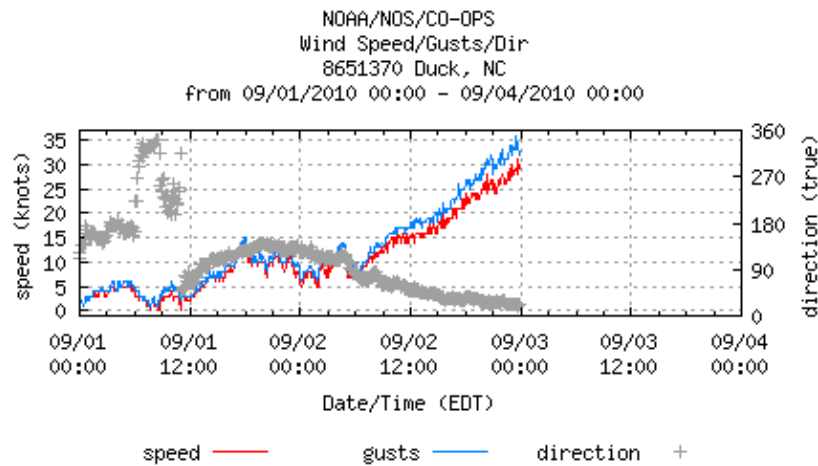


Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: Observed: 2.93 ft. Predicted: 1.71 ft. Residual: 1.22 ft.

Historical Maximum Water Level: Aug 30 1999, 3.23 ft. above **MHHW**

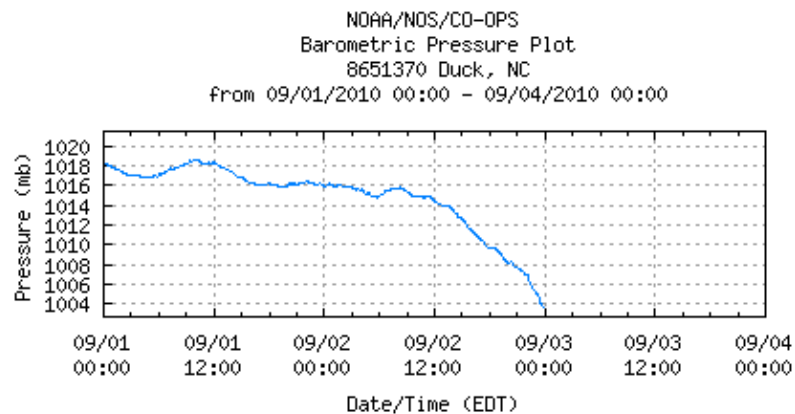
Duck, NC - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Wind Speed: 29 knots Gusts: 32 knots Direction: 022° T

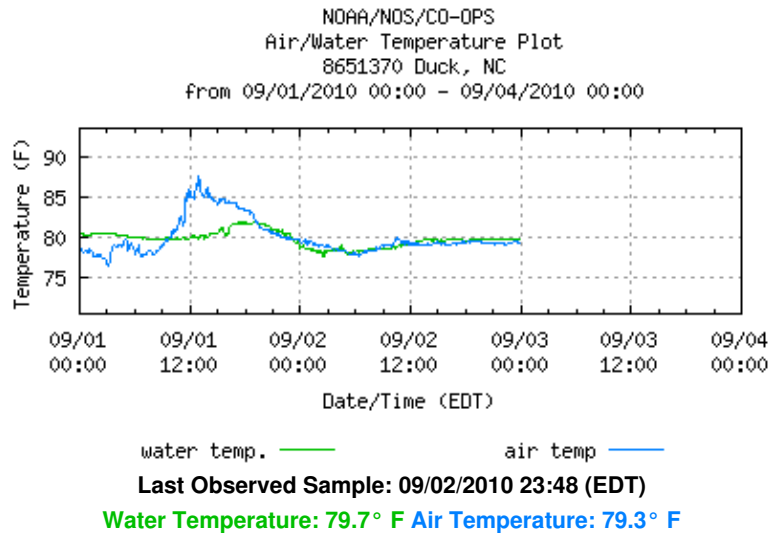
Duck, NC - [Return to List](#)



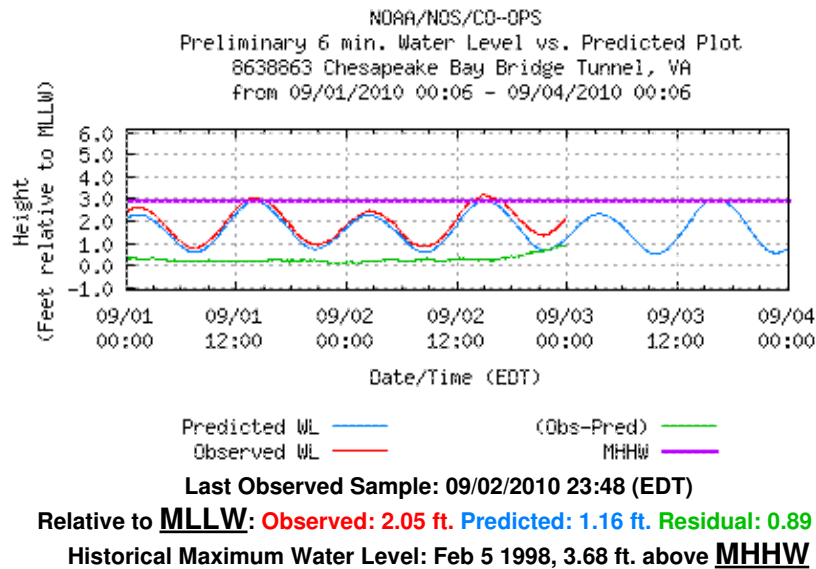
Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1003.7 mb

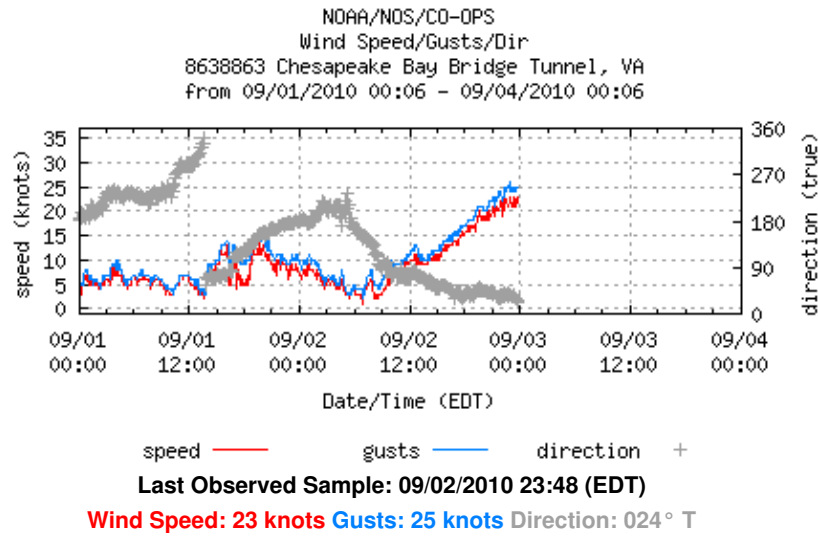
Duck, NC - [Return to List](#)



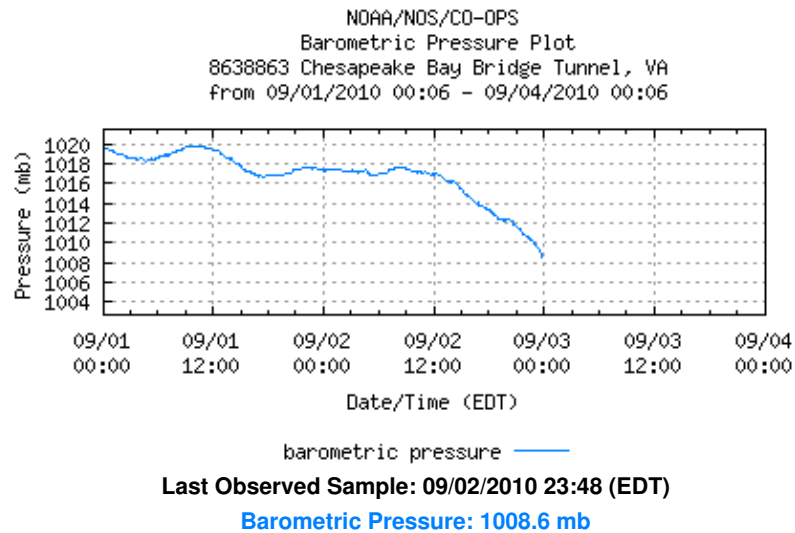
Chesapeake Bay Bridge Tunnel, VA - [Return to List](#)



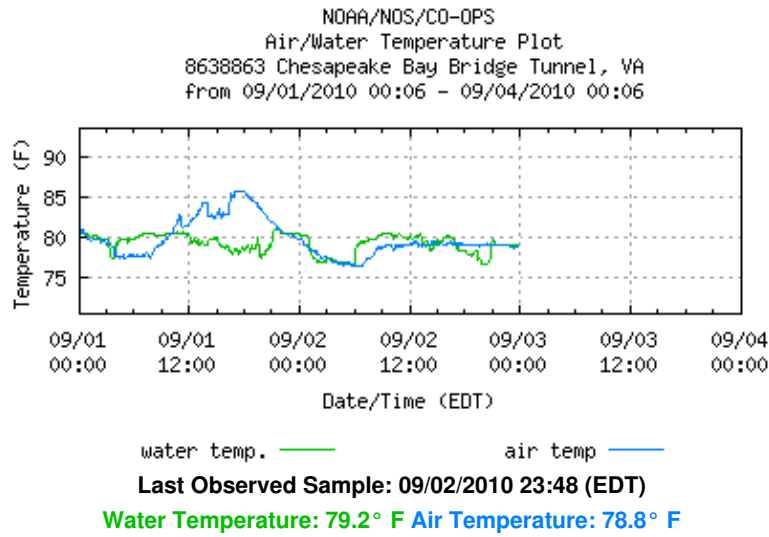
Chesapeake Bay Bridge Tunnel, VA - [Return to List](#)



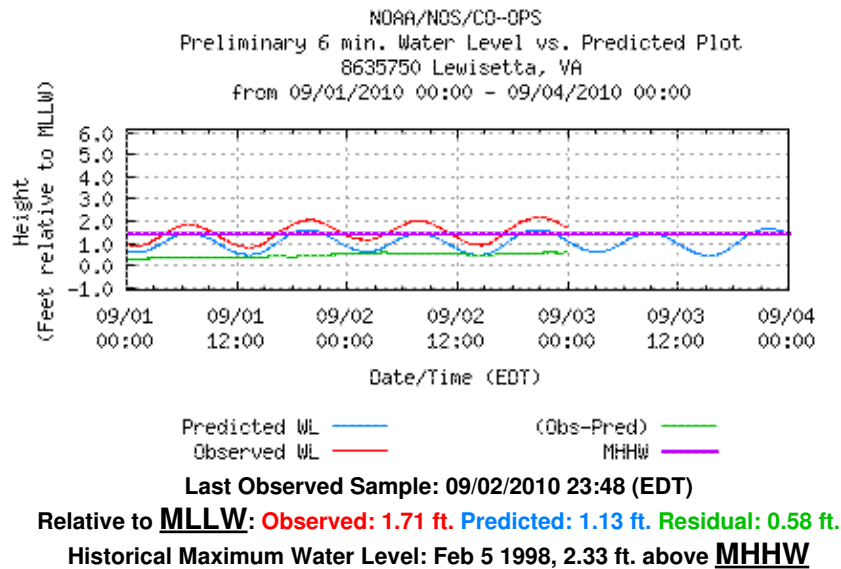
Chesapeake Bay Bridge Tunnel, VA - [Return to List](#)



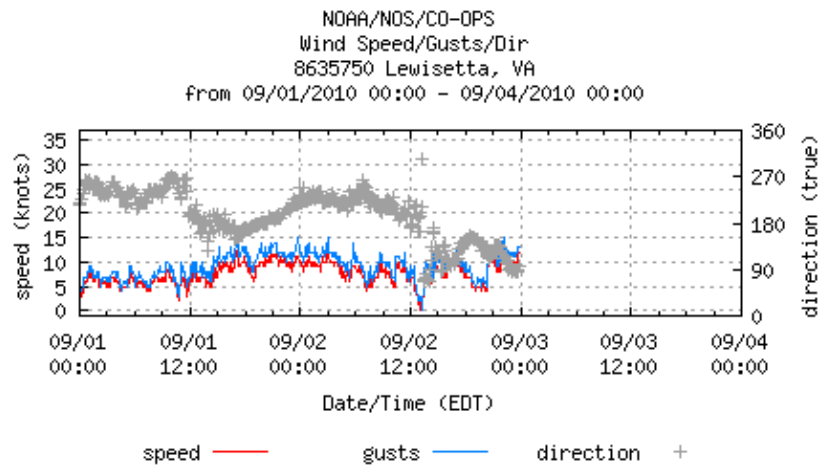
Chesapeake Bay Bridge Tunnel, VA - [Return to List](#)



Lewisetta, VA - [Return to List](#)



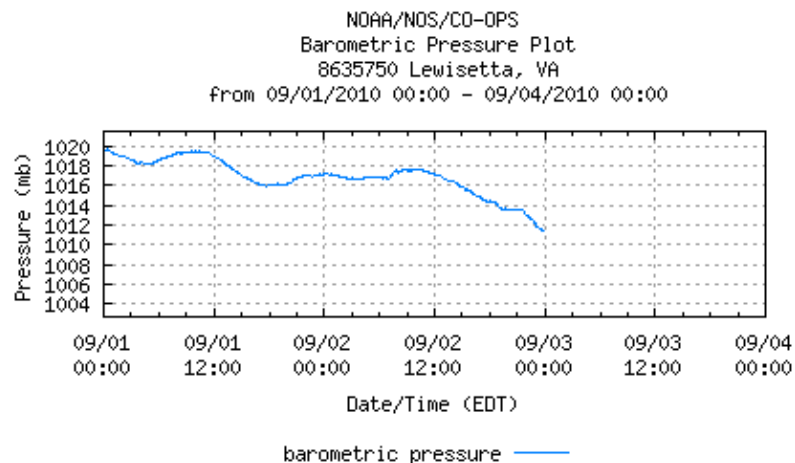
Lewisetta, VA - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Wind Speed: 12 knots Gusts: 13 knots Direction: 095° T

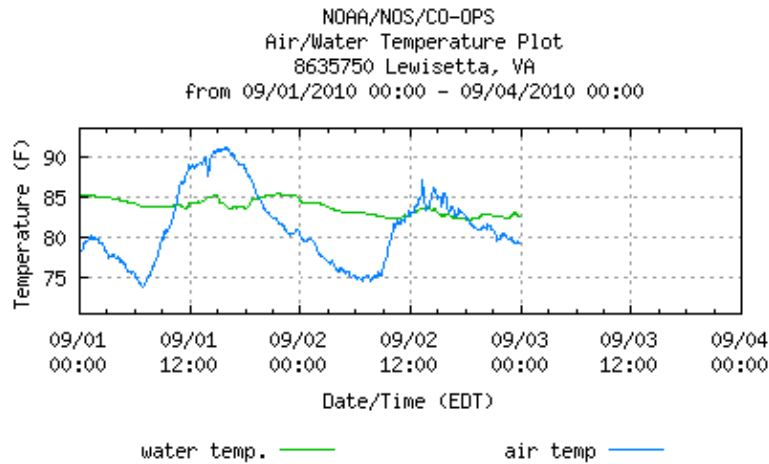
Lewisetta, VA - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1011.4 mb

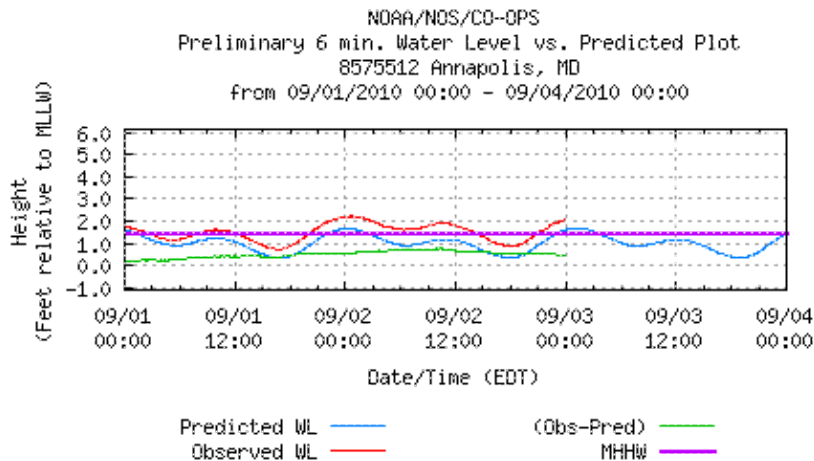
Lewisetta, VA - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Water Temperature: 82.7° F Air Temperature: 79.3° F

Annapolis, MD - [Return to List](#)

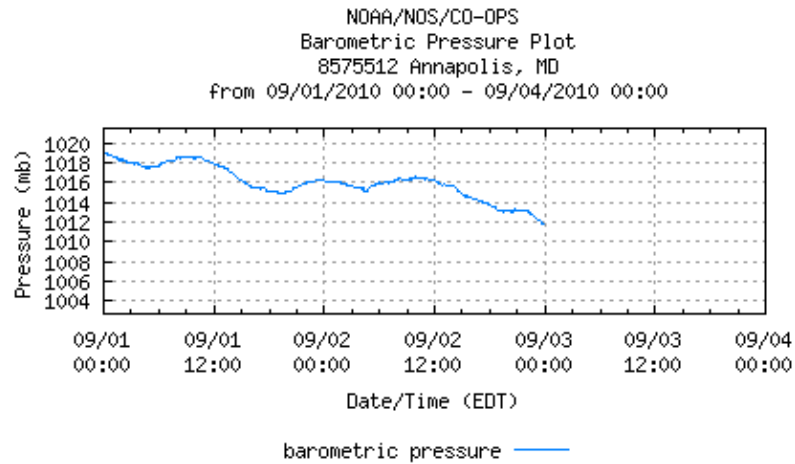


Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: Observed: 2.05 ft. Predicted: 1.57 ft. Residual: 0.48 ft.

Historical Maximum Water Level: Aug 23 1933, 4.74 ft. above **MHHW**

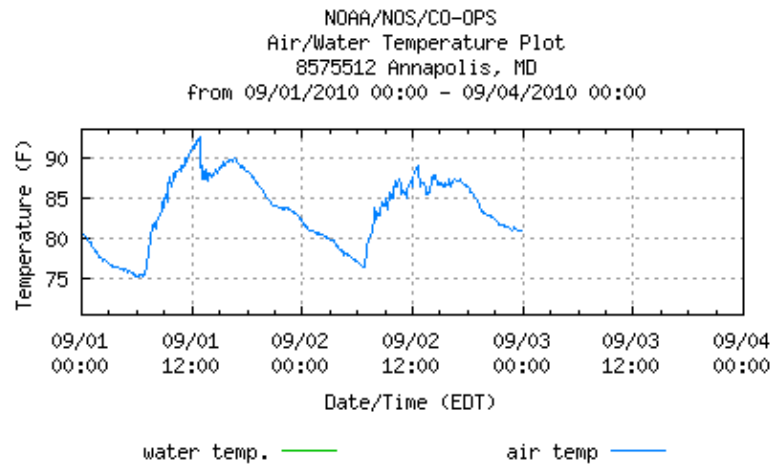
Annapolis, MD - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1011.8 mb

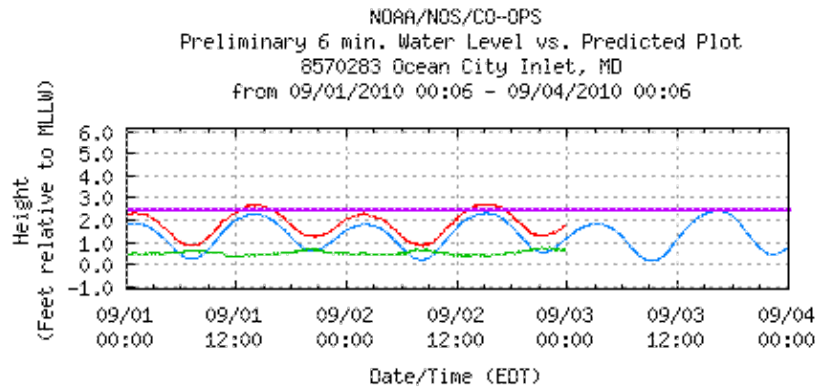
Annapolis, MD - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Water Temperature: n/a Air Temperature: 80.9° F

Ocean City Inlet, MD - [Return to List](#)

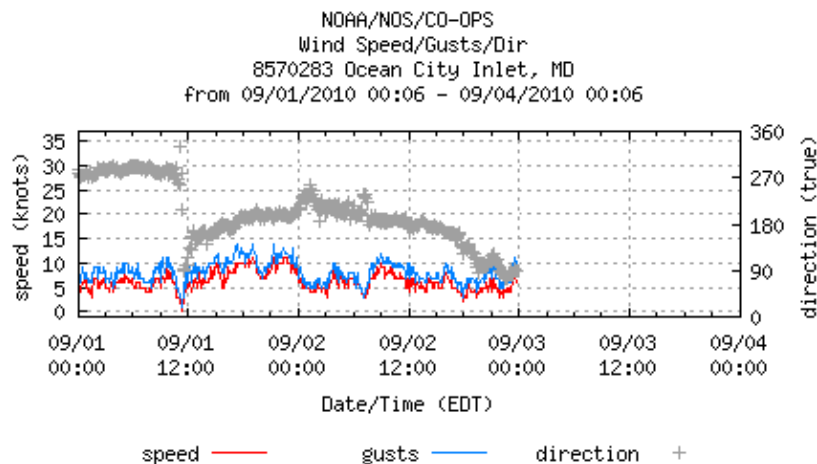


Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: **Observed: 1.76 ft. Predicted: 1.12 ft. Residual: 0.64 ft.**

Historical Maximum Water Level: Feb 5 1998, 3.6 ft. above **MHHW**

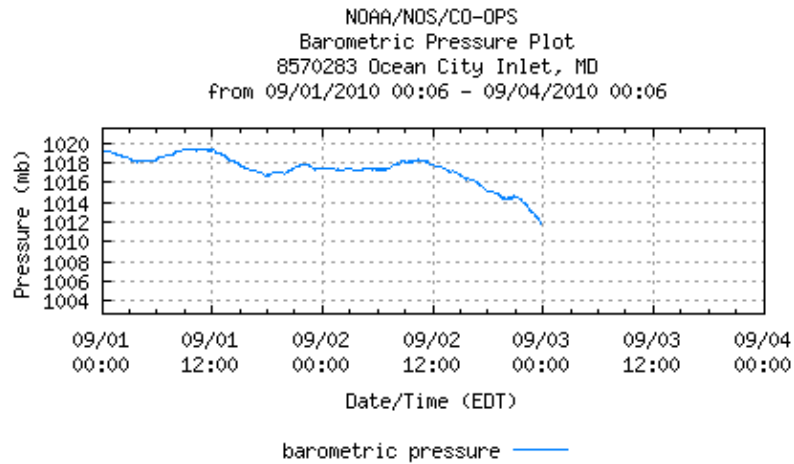
Ocean City Inlet, MD - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Wind Speed: 6 knots Gusts: 10 knots Direction: 088° T

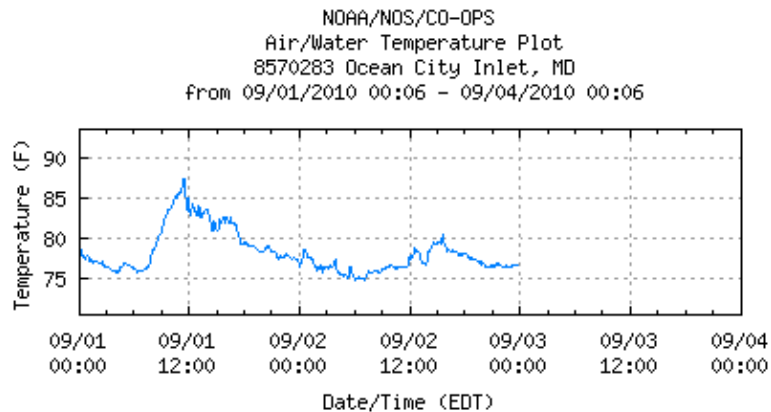
Ocean City Inlet, MD - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1011.9 mb

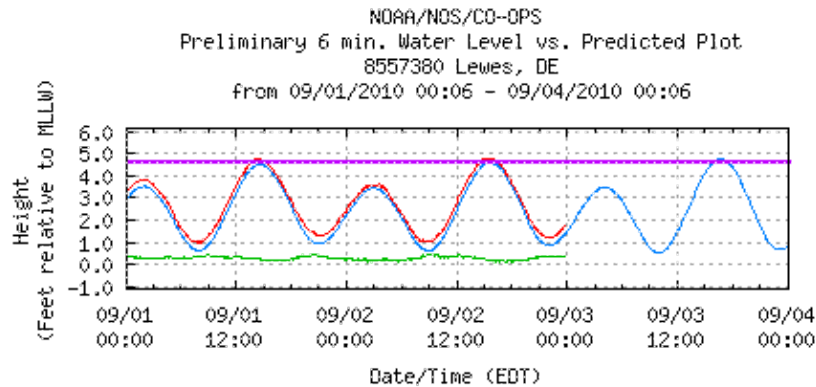
Ocean City Inlet, MD - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Water Temperature: n/a Air Temperature: 76.8° F

Lewes, DE - [Return to List](#)

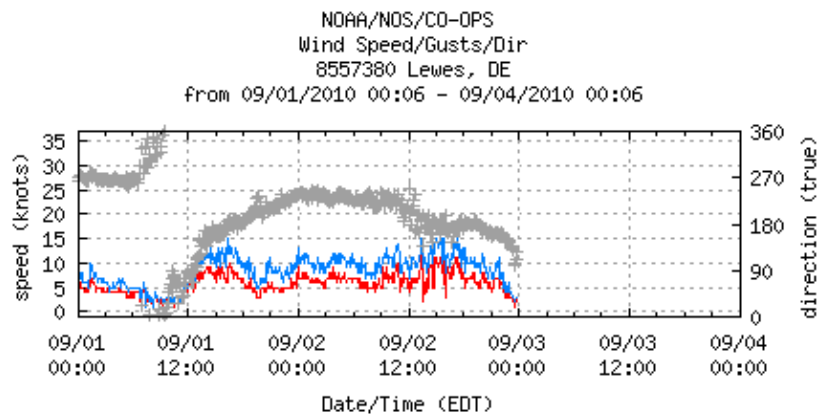


Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: **Observed: 1.76 ft. Predicted: 1.38 ft. Residual: 0.38 ft.**

Historical Maximum Water Level: Mar 6 1962, 4.57 ft. above **MHHW**

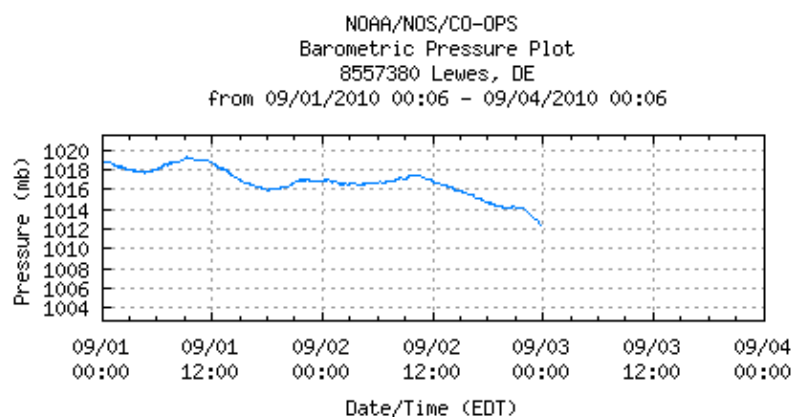
Lewes, DE - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Wind Speed: 3 knots Gusts: 3 knots Direction: 128° T

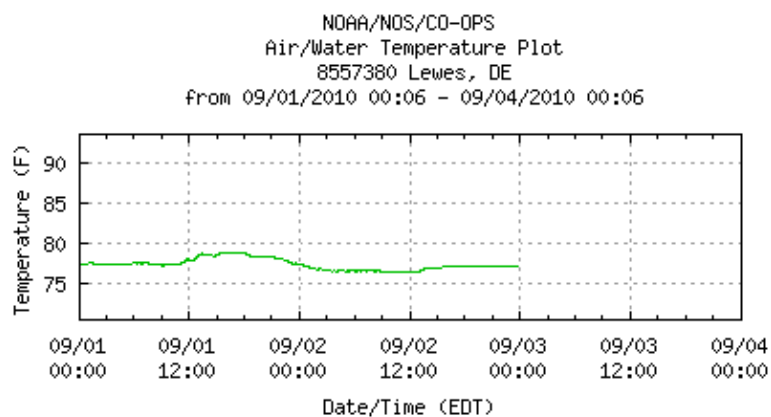
Lewes, DE - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1012.3 mb

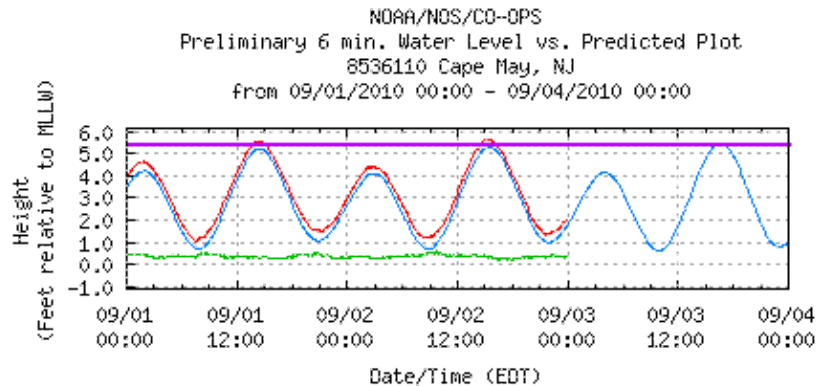
Lewes, DE - [Return to List](#)



Last Observed Sample: 09/01/2010 00:06 (EDT)

Water Temperature: 77.5° F Air Temperature: n/a

Cape May, NJ - [Return to List](#)

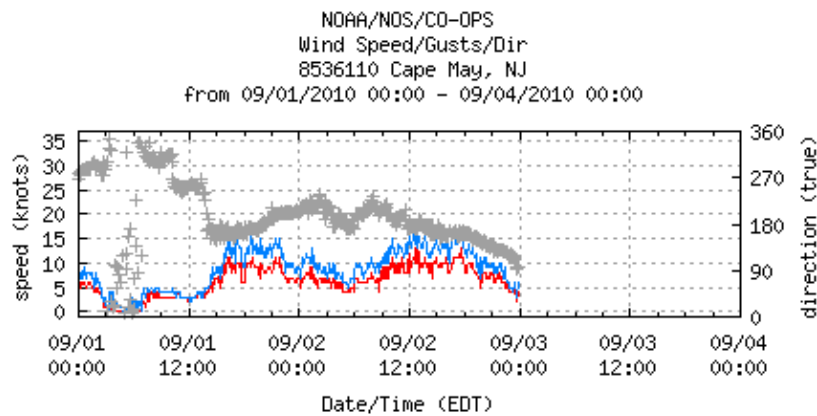


Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: **Observed: 2.02 ft. Predicted: 1.69 ft. Residual: 0.33 ft.**

Historical Maximum Water Level: Sep 27 1985, 3.36 ft. above **MHHW**

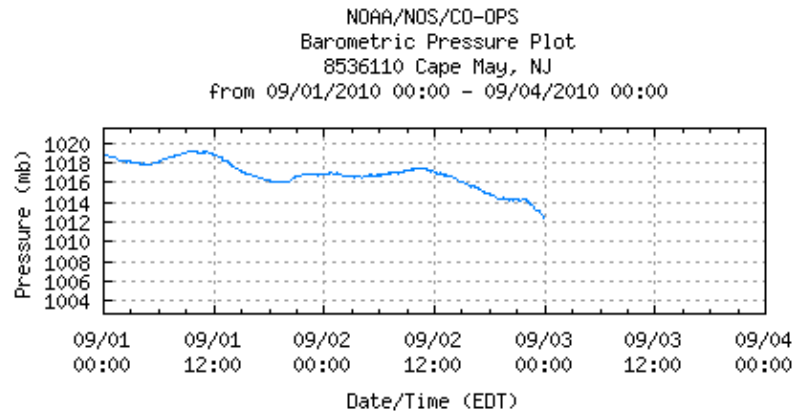
Cape May, NJ - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Wind Speed: 4 knots Gusts: 6 knots Direction: 095° T

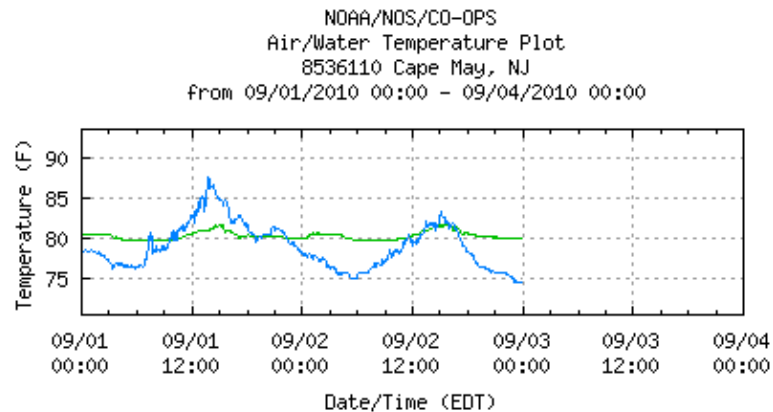
Cape May, NJ - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1012.4 mb

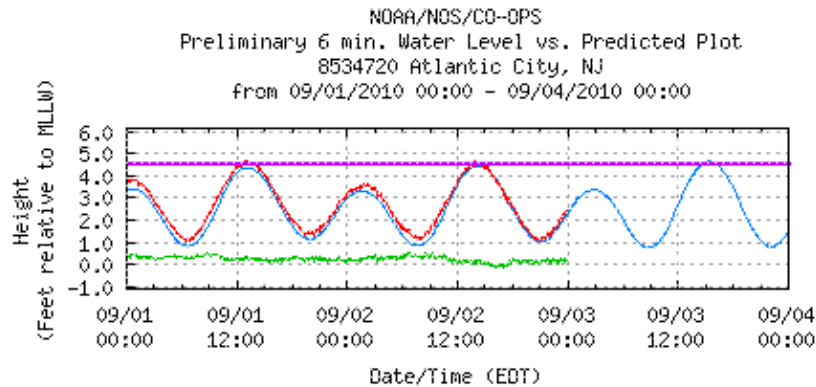
Cape May, NJ - [Return to List](#)



Last Observed Sample: 09/02/2010 23:48 (EDT)

Water Temperature: 80.1° F Air Temperature: 74.5° F

Atlantic City, NJ - [Return to List](#)



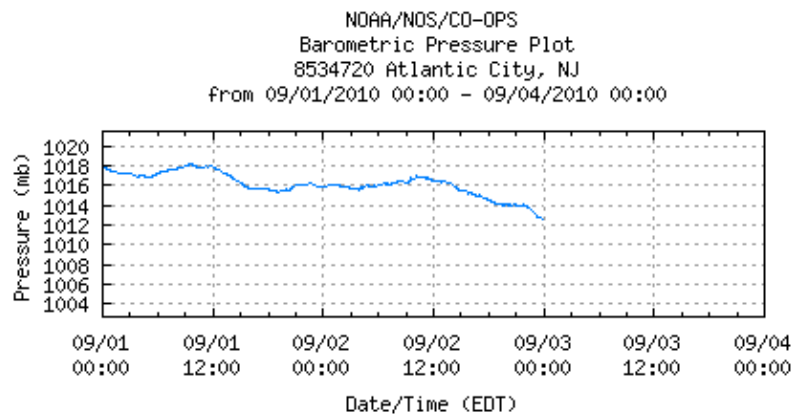
Predicted WL — (Obs-Pred) —
Observed WL — MHHW —

Last Observed Sample: 09/02/2010 23:48 (EDT)

Relative to **MLLW**: **Observed: 2.42 ft.** **Predicted: 2.20 ft.** **Residual: 0.22 ft.**

Historical Maximum Water Level: Dec 11 1992, 4.38 ft. above **MHHW**

Atlantic City, NJ - [Return to List](#)



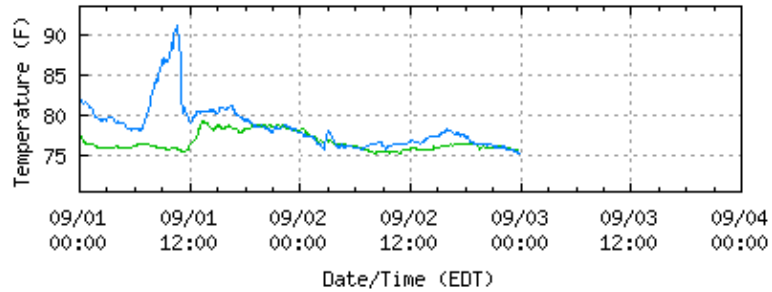
barometric pressure —

Last Observed Sample: 09/02/2010 23:48 (EDT)

Barometric Pressure: 1012.5 mb

Atlantic City, NJ - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8534720 Atlantic City, NJ
from 09/01/2010 00:00 - 09/04/2010 00:00



water temp. — air temp. —

Last Observed Sample: 09/02/2010 23:48 (EDT)

Water Temperature: 75.4° F Air Temperature: 75.4° F

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce